Hawai`i Institute of Geophysics and Planetology in SOEST, University of Hawai`i
Assistant and Associate Researcher
(Earth and Planetary Exploration Using Small Satellites)

Position Number: 0086164, 0085911
Hiring Unit: Hawai`i Institute of Geophysics and Planetology/SOEST
Location: Manoa Campus
Closing Date: Continuous - application review begins August 16, 2018
Salary Information: R3M11/R4M11, competitive and commensurate with qualifications and experience
Monthly Type: 11 Month
Tenure Track: Tenure
Full Time/Part Time: Full Time
Temporary/Permanent: Permanent

Other Conditions:
- One appointment will be made at the assistant level, the other at the associate level. 75% State funds provided. The selectees are expected to fund the remainder through extramural funds. Both positions are available from July 1, 2018.

Duties and Responsibilities

1. The University of Hawai`i (UH) established the Hawai`i Space Flight Laboratory (HSFL) in 2007 as a collaboration between the School of Ocean and Earth Science and Technology (SOEST) and College of Engineering (CoE). HSFL is an interdisciplinary science/engineering organization that designs, builds, tests, launches, and operates microsatellite (1-150 kg) missions from the Hawaiian Islands. HSFL has a microsatellite engineering team of mechanical, avionics, and software engineering staff and students. The HSFL Integration & Test Facility has a well-equipped cleanroom and environmental test and evaluation facilities (thermal-vacuum chamber, shake table, attitude determination and control test unit). HSFL draws science mission inspiration from its parent organization, the Hawai`i Institute of Geophysics and Planetology (HIGP/SOEST) which participates in NASA, NSF, NOAA, and DoD instrument development and science research in Earth and planetary science missions. One of the goals of HSFL is to provide experiential learning/research opportunities for undergraduate and graduate students in order to train a new aerospace workforce. HIGP seeks to hire two tenure-track faculty members (one appointment will be made at the assistant level, the other at the associate level) to lead the development of small/micro/cube satellite missions (or the development of key subsystems, such as payloads) to support new Earth and planetary science missions. The successful candidates will seek and obtain extramural funding in support of this, take an active role in student advising and teaching, and publish research results in the refereed literature.

2. Act as principal investigator and lead the development of proposals related to small satellite missions and/or subsystem development (for example payloads).

3. Publish findings in appropriate peer-reviewed journals.

4. Teach one course per year (or equivalent in co-taught courses) relating to small satellite mission design/payload development in support of HIGP’s Earth and Planetary Exploration Technology undergraduate certificate, and/or other collaborative teaching ventures between SOEST and CoE.

5. Provide and mentor experiential learning/research opportunities for undergraduate and graduate students.

6. Present results at appropriate conferences.

Assistant Researcher Minimum Qualifications

1. Earned Doctorate (at the time of application) in a relevant discipline including, but not limited to, aerospace engineering, planetary science, Earth science, geophysics, electrical engineering, mechanical engineering, or other applicable discipline.

2. Record of peer-reviewed publications (two or more such articles; consideration is also given to professional reports).
3. Demonstrable potential for obtaining extramural funding for the purpose of small satellite mission and/or payloads/subsystem development for such a mission.
4. Experience in a small satellite mission (or payload/instrument development project) relating to Earth and/or planetary exploration.
5. Organizational skills to coordinate and conduct research.
6. Demonstrated ability to collaborate effectively as part of an engineering and/or science research team.
7. Demonstrated mentoring skills to manage and instruct students.

Associate Researcher Minimum Qualifications
1. In addition to the previously stated minimum qualifications for the Assistant level, a minimum of five peer-reviewed publications.
2. A strong record of obtaining extramural research funding, as Principal Investigator, to support small satellite mission (and/or instrument/payload) development projects.
3. At least four years of relevant post-doctoral experience in the field described above.

Desirable Qualifications
1. Experience in working on small satellite projects in a university environment.
2. Experience working as a team in the design of small satellite missions (e.g., participation in a Preliminary/Critical Design Review, and/or Flight Readiness Review).
4. Demonstrated ability to present at design reviews, workshops, and international conferences.
5. Direct work experience involving compliance with United States Export Control Laws and Regulations (i.e. ITAR/EAR).

To Apply:
Send i) a letter describing your related experience and stating whether you wish to be considered for the Assistant or Associate level position, ii) a point-by-point narrative of how you satisfy both the minimum and desirable qualifications, iii) a statement describing the research program you would pursue should you be appointed, iv) full curriculum vitae, and v) the names, addresses and emails of three people willing to write letters of recommendation. Applications should consist of a single PDF file containing items i, ii, iii, iv and v emailed to the following address: satellite-search@higp.hawaii.edu.

Inquiries: satellite-search@higp.hawaii.edu

The University of Hawai‘i is an equal opportunity/affirmative action institution and is committed to a policy of nondiscrimination on the basis of race, sex, gender identity and expression, age, religion, color, national origin, ancestry, citizenship, disability, genetic information, marital status, breastfeeding, income assignment for child support, arrest and court record (except as permissible under State law), sexual orientation, domestic or sexual violence victim status, national guard absence, or status as a covered veteran.

Employment is contingent on satisfying employment eligibility verification requirements of the Immigration Reform and Control Act of 1986; reference checks of previous employers; and for certain positions, criminal history record checks.

In accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, annual campus crime statistics for the University of Hawaii may be viewed at: http://ope.ed.gov/security/; or a paper copy may be obtained upon request from the respective UH Campus Security or Administrative Services Office.